## ISO SC4/WG10 AP Modularization Status Report

**Bad Aibling**

**June 6, 1998**

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## WG10 AP Modularization Process

- **Florence WG10 one day workshop**
  - **Several presentations on concepts**
  - **Based on similarity and resources, decided to proceed via PDES, Inc. team developing approach**
    - **Guidelines and sample modules were produced**
- **Two interim WG10 three day workshops**
  - **Review approach and guidelines**
  - **Gain consensus and generate issues**
- **Orlando WG10 one day workshop**
  - **Based on progress, build development plans**

# London Workshop Review

- **Next Actions**
  - Move to some level of experimentation
    - Agree on one scope, have two groups develop modules to meet that scope, compare the results (PDES, Inc. and Shipbuilding)
    - Produce modules based on both the ARMed approach and the ARM-less approach and compare results (PDES, Inc., J. Fowler, R. Goult for EACM, N. Swindells)
  - Produce Issues Log and Classify Issues (D. Price)

# London Workshop Review (2)

- **Next Actions continued**
  - Complete AP Development Guidelines 0.3 but do not update yet per workshop issues (D. Price)
  - Publish web demo (C. Vaughn and J. Fowler)
  - Framework/catalogue coordination (C. Vaughn)
  - Prioritize and resolve issues (WG10 and workshops)

# Gaithersburg Workshop Review

- **Identified four areas for activity**
  - Technical development
  - Framework/catalogue development
  - Methodology and guidelines development
  - New organizational structure/process development and control

# Proposed Plan from Orlando

- **2Q98 : Experiment among the possible approaches and determine the best one**
- **2Q98 : Document the approach and technical content of an AM and an AP using AMs**
- **3Q98 : Develop an AM scoping and integration support process for teams developing AMs and APs**
  - Development and support of the AM catalogue
- **4Q98 : Develop AMs and APs using AMs**

# Accomplishments Since Orlando

- **STEP Modularization Strategy**
  - Developing Integration/Harmonization Guidelines
  - Developing Module Validation Process
  - Publishing draft of Industrial Framework Model
  - Published an update of the Issue Log
- **Application Modules/AP Extensions**
  - Published early draft of PDM schema as a sample modularized AP in HTML
  - Published sample drafting modules suite
  - Published draft of modules library, catalogue and framework for the Web (see the demo!)

# Accomplishments Since Orlando (2)

- **Specifications**
  - Part 21 : published draft amendment with support of data from more than on schema in a single file
  - Held session evaluating EXPRESS-X as potential replacement for AP mapping table
    - No capability identified yet that EXPRESS-X cannot handle
- **Administration and planning**
  - See the proposal for a formal WG10 PWI
  - See the proposal for accelerating development via the STEP Centers as a more formal industry organization

## Summary of Status from Orlando plan

- **We are slightly behind on some items from Orlando plan**
  - No "ARM-less module" was produced
  - No interim workshops or meetings were held with interested industry organizations as was hoped
- **We are slightly ahead on some items from Orlando plan**
  - Have HTML template for modules and connections into Web-based catalogue
  - Using product id and approval modules in work on SC4 data architecture PWI as first example

## Plans for next quarter

- **Formal recognition in SC4 via PWI**
- **Complete drafting modules suite proposal**
- **Complete process for modules validation**
- **Complete integration/harmonization guideline**
- **Publish completed PDM modules suite and sample PDM AP using modules in HTML**
- **NWI/CD ballot for Part 21 amendment**
- **Get project Web site online**

## Proposed Standardization Directions

- **The approach is to separate development, publication and standardization**
  - *Do not use the ISO standardization process as a development process*
  - *During development don't enforce ISO document requirements and enable Web-based development*
  - *Use an Advanced Industry Standards Organization initially based on the STEP Centers - then fast-track into ISO standardization process*
- **Keeping international support and consensus is critical to making this work**

## Potential Recommendations for AP development teams

- *For any AP not yet through interpretation*
  - Adopt the AP modularization approach
- *For any AP not yet in CD ballot cycle*
  - Adopt the AP modularization approach in any known areas of overlap with existing or in development APs
- *For any AP that has passed CD ballot, is DIS, FDIS or IS*
  - Make a case by case determination on modularizing the technical contents for inclusion in the AM catalog

# Potential Recommendations to SC4

- **Accept AMs as a new type of ISO 10303 Part**
  - **or as the next generation of AIC**
- **Accept that APs may be published using the AP modularization approach**
- **Prepare for finalization of new Guidelines, new Methods, AMs and modularized APs**
  - **Best estimate is October 98**

# Issue Log

| Issue Category | Open Issues | Accepted/Resolved Issues | Closed Issues | Total |
|---|---|---|---|---|
| Technical Development | 20 | 0 | 3 | 23 |
| Guidelines/Methodology | 21 | 9 | 11 | 41 |
| Organizational/Process | 8 | 4 | 2 | 14 |
| Framework/Catalogue | 0 | 2 | 0 | 2 |
| Total | 49 | 15 | 16 | 80 |

**<u>Now for the demo!</u>**